DynamicsPower! AUSTRALIA













Build Embedded Canvas PowerApps to Replace Your Dialogs

Nick Doelman (MVP)

Dynamics 365/Power Platform Specialist



Who Am I?

Nick Doelman, Microsoft MVP - Business Applications

Power Platform/Dynamics 365 Specialist

Ottawa, ON, CANADA

@readyxrm

https://readyxrm.blog

https://www.linkedin.com/in/nickdoelman/

https://crm.audio/category/podcasts/dynamics365-portals/





Agenda

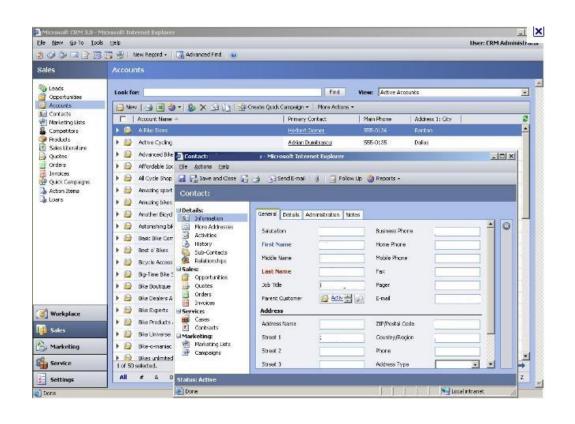
- Intro
- What is the Power Platform?
- Using Dialogs
- Replacing Dialogs with Embedded Canvas Apps
- How to Embed a Canvas App on a Model Driven Form
- Q&A



What is the Power Platform?



Dynamics CRM: In the Beginning





Dynamics CRM

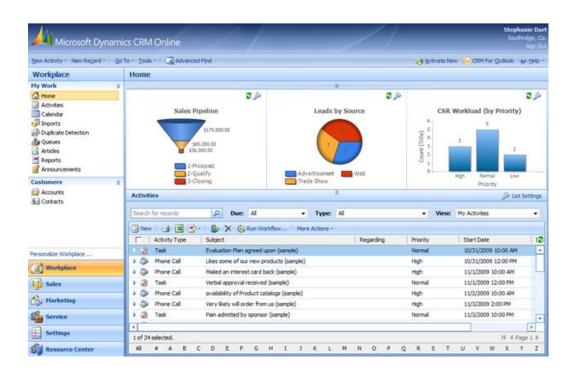
- Sales
- Service
- Marketing

Business Application Layer

Microsoft SQL



Dynamics CRM Online



Dynamics CRM Online

- Sales
- Service
- Marketing

Business Application Layer

Microsoft SQL

AZURE/Office 365



xRM – Unique Line of Business Apps



Unique Line of Business Apps a.k.a. xRM Applications

"anything" Relationship Management

Dynamics CRM/CRM Online

- Sales
- Service
- Marketing

Business Application Layer

Microsoft SQL

xRM – Unique Line of Business Apps



- Data Entity and Relationships
- Multi-user
- Web Based
- User Security and Authentication
- User Interface
- Automation (Workflow)
- Reporting
- Integration
- Mobile
- Etc...



xRM – Unique Line of Business Apps

XRM

One Platform. Many Applications.

https://youtu.be/Yru5CkANOKA





Side Conversation: Dynamics 365?







Microsoft Marketing to the Rescue!





















Dynamics 365











Dynamics 365











Dynamics 365





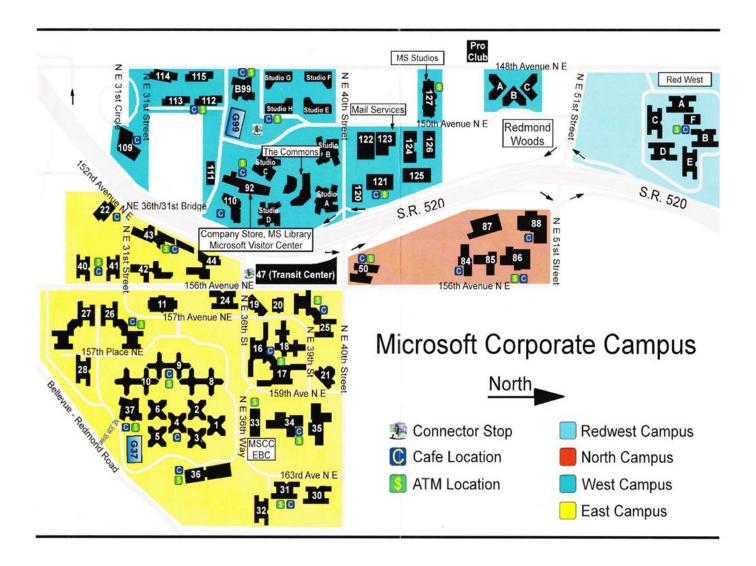
Dynamics 365 (CRM, F&O, Bus. Central)



Dynamics Unique Line of Business Apps **Dynamics** a.k.a. xRM Applications 365 365 "anything" Relationship Finance & Business Operations Central Management **Dynamics 365 for Customer** Engagement Sales Service Marketing **Business Application Layer** Microsoft SQL **AZURE**

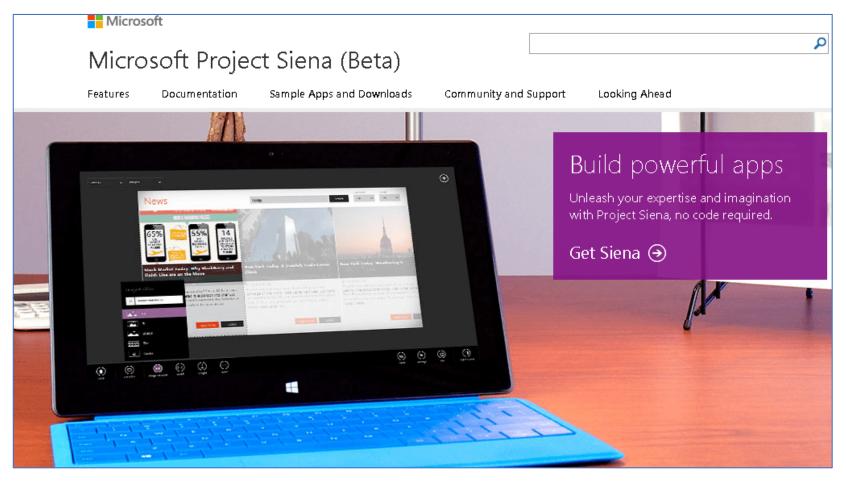


Meanwhile, in some other Lab at Microsoft...





Project Siena

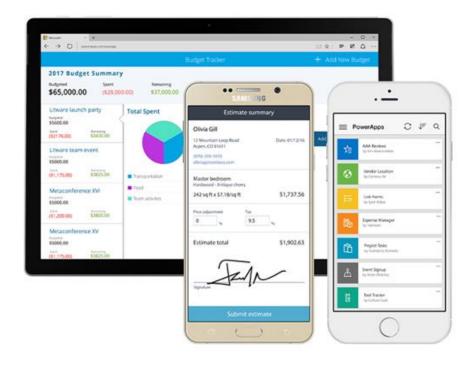




"Classic" PowerApps

PowerApps – low code/no code

- SharePoint
- Office 365
- SQL
- etc



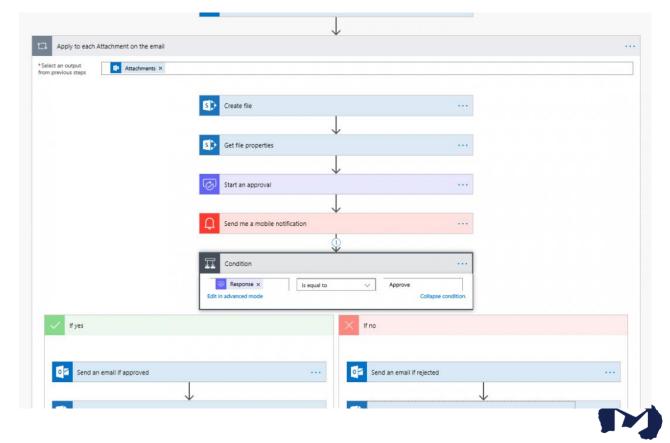


Microsoft Flow

Flow – low code/no code workflows

- SharePoint
- Office 365
- SQL
- Etc





PowerBI

Power BI – Reporting

Any data source







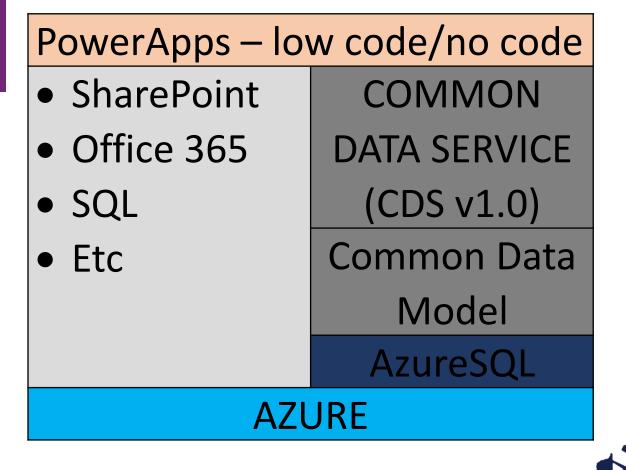
Maybe need a Database with Common Entities...?



Common Data Service

Common Entities like;

- Accounts
- Contacts
- Activities...





What can we do with this new tech?





PowerApps – Unique Line of Business Apps



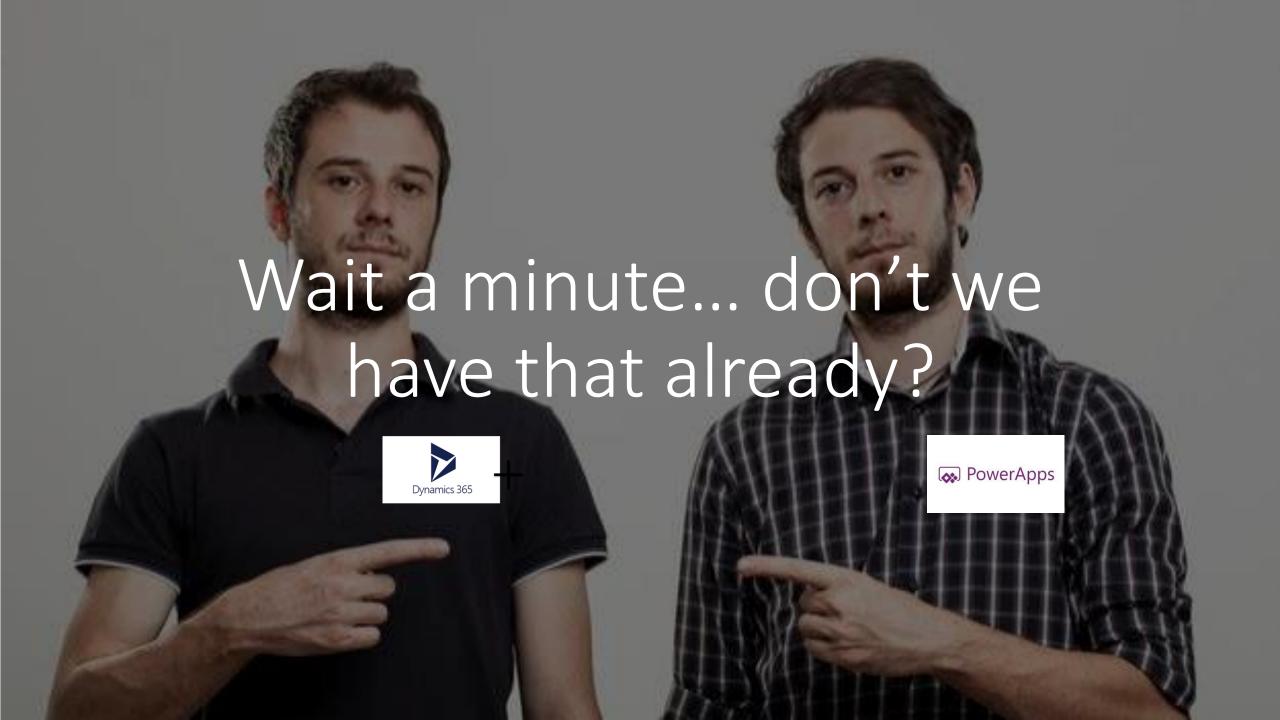
- Data Entity and Relationships
- Multi-user
- Web Based
- User Security and Authentication
- User Interface
- Automation
- Reporting
- Integration
- Mobile
- Etc...



What can we do with this new tech?

Unique Line of Business Apps PowerApps – low code/no code SharePoint **COMMON** • Office 365 DATA SERVICE • SQL (CDS v1.0) Common Data • Etc Model AzureSQL **AZURE**









Microsoft Marketing to the Rescue!









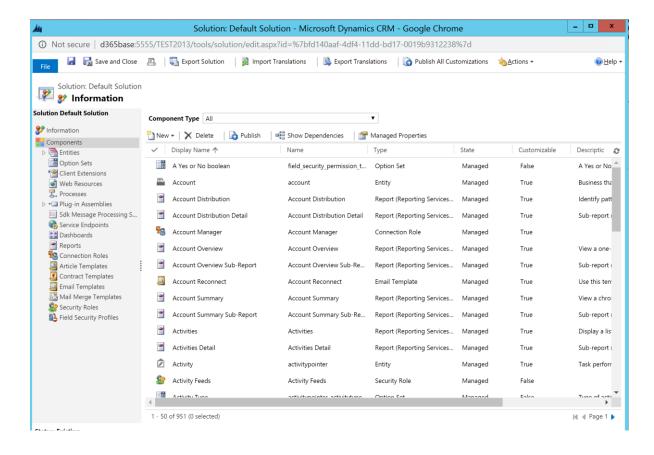




PowerApps

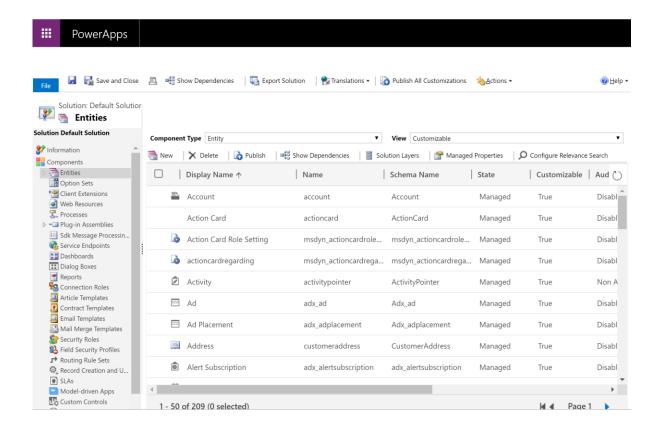


And Marketing Created Some Stickers



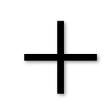


And Marketing Created Some Stickers

















POWER PLATFORM!



The Power Platform

Dynamics 365 First	Unique Line of	FLOW	PowerBl	200+	Dynamics 365	Dynamics
Party Apps	Business Apps			Connectors	Finance &	365
Sales					Operations	Business
Service	PowerApps					Central
 Marketing 	 Model Driven 					
 New Marketing 	(CRM style)					
Talent	Canvas Based					
Retail						
More	"xRM" but better					
Common Data Service "2.0"						
Common Data Model						
Azure SQL						
AZURE						



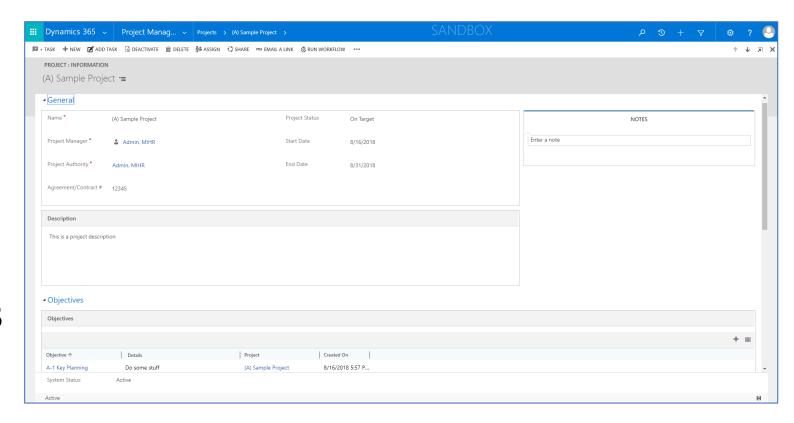
Terminology

- Classic Web Interface
- Unified Interface
- Canvas App
- Model Driven App
- PowerApp Component Framework control



Classic Web Interface

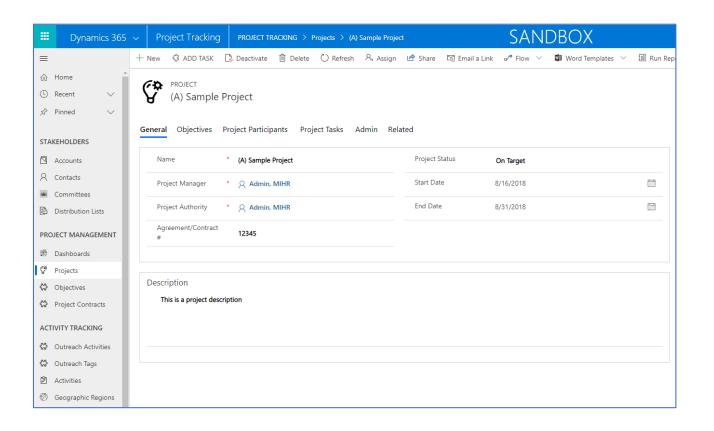
- Existing "CRM" style interface
- Build for Web Browsers
- Tricky to navigate
- Lots of white space
- Introduced in CRM 2013
- Will be deprecated





Unified Interface

- New, updated "CRM" style interface
- Scales to different layouts
- Faster
- Side Navigation, Tabs (remember CRM 2011?)
- Default experience moving forward
- Does not support Dialogs





Canvas App

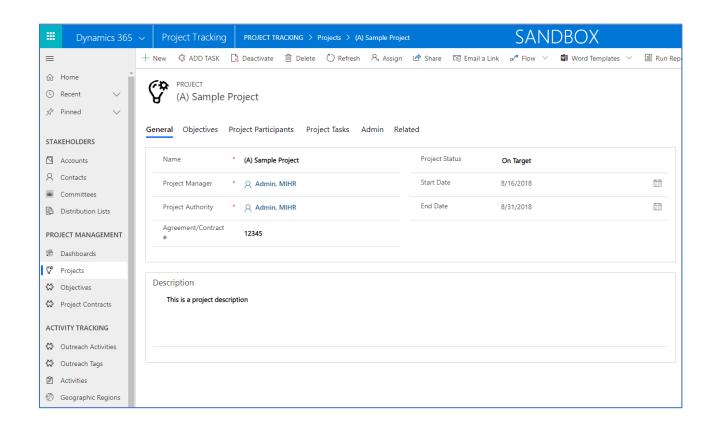
- Traditional "PowerApp"
- Extremely flexible layout
- Variety of devices (web, mobile, etc)
- 100s of Connectors
- Constantly evolving





Model Driven App

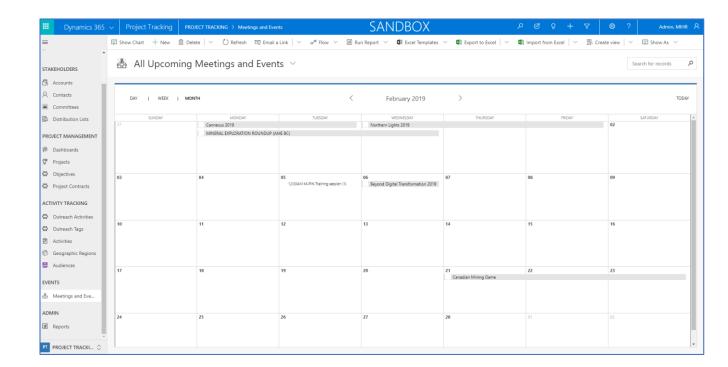
- Traditional "CRM" style interface
- Entities, Views, Forms
- Standard Layout
- Backend is CDS database
- Build line of business apps quickly





PowerApps Component Framework

- Customized User Controls for Model Driven Apps
- Allows developers to create customized user experience controls
- Some created by Microsoft, many created by community
- Embedded Canvas App is type of Control
- Other examples are editable grid, calendar control, etc.





Dialogs

- Workflows with user interaction
- Use Case Project Task Tracking

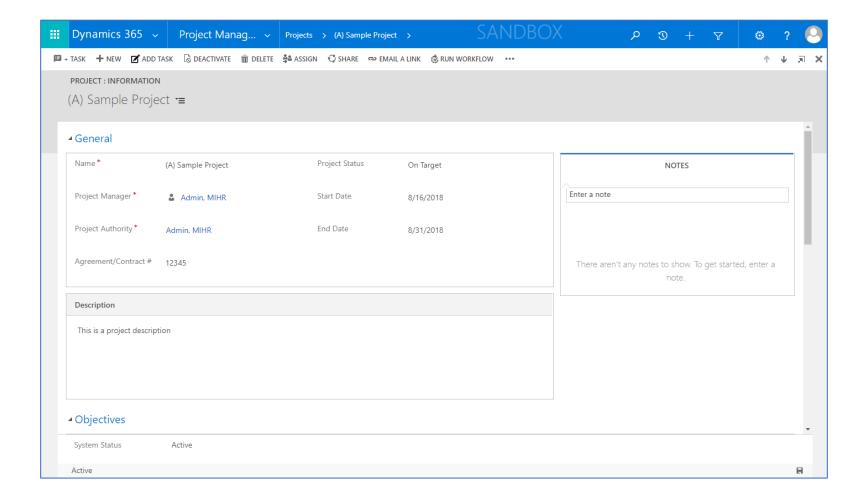


The "Old Way" – Using Dialogs in the Classic Web App



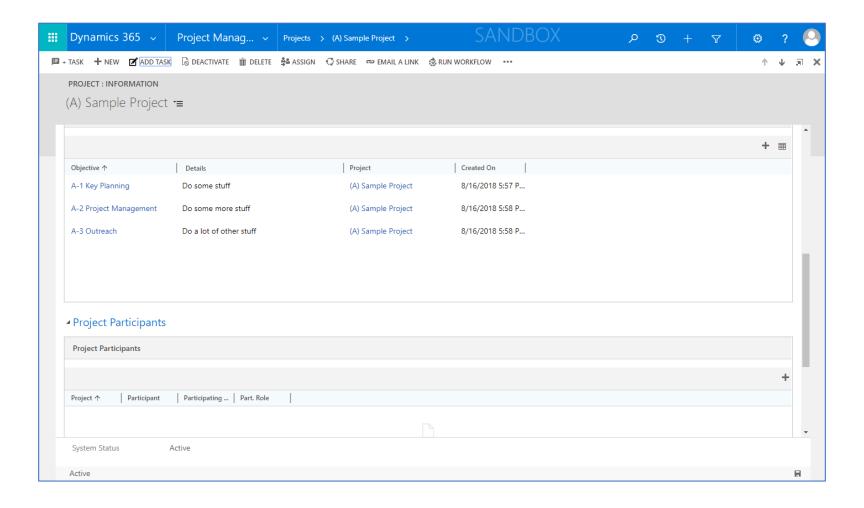


Task Tracking Against Project



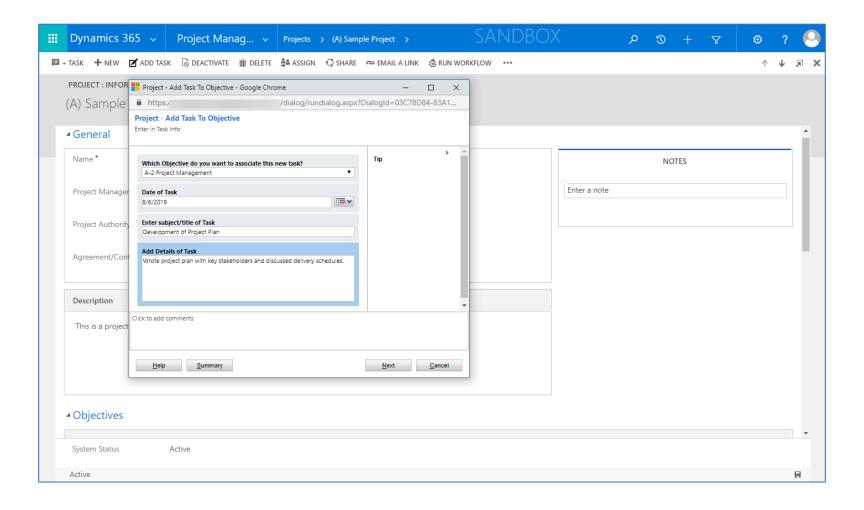


Adding Project Tasks Against Objectives



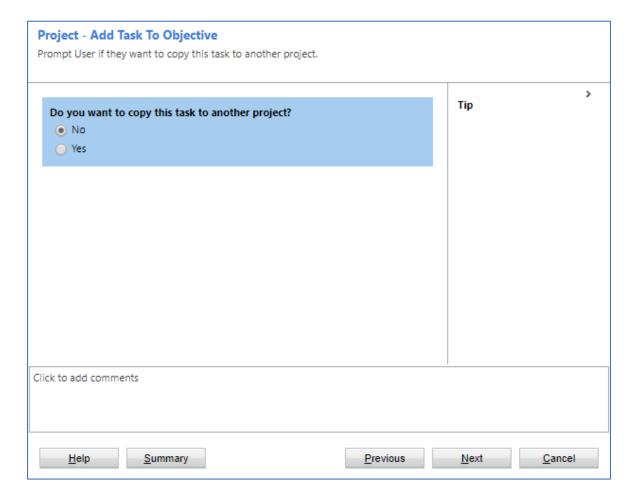


Adding Project Tasks Against Objectives



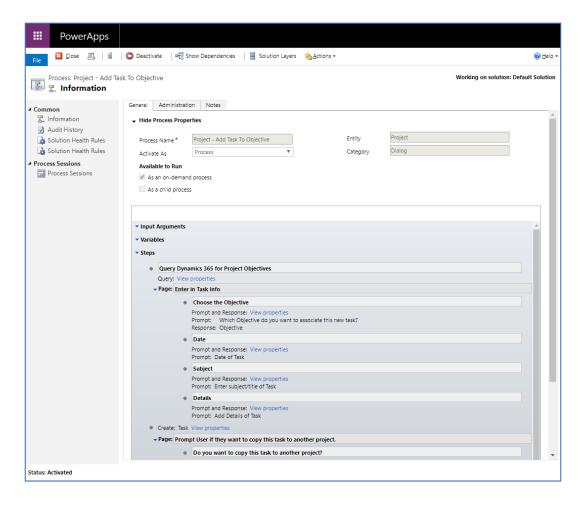


Copy Project Tasks to other projects





Building a Dialog





Accomplishments

- Reduced clicks
- Easier for end users to understand
- Accurate reporting



Going Forward

- Dialogs have been deprecated
- Unified Interface
- Dialogs were never that pretty anyway



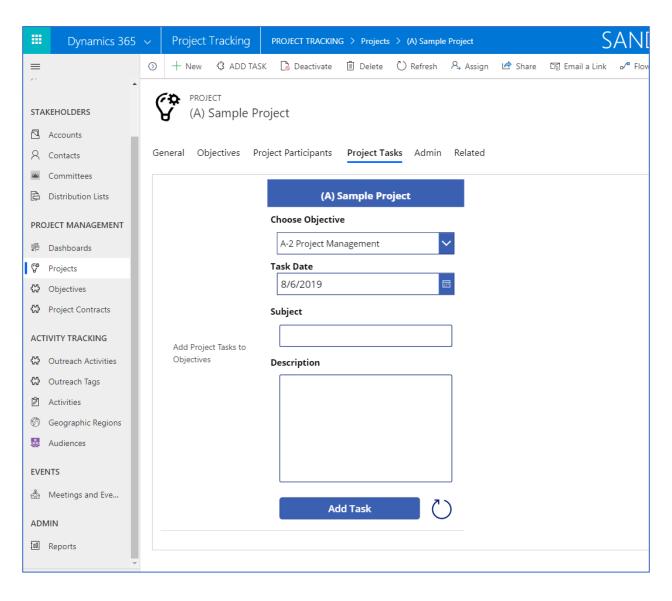
The "New Way" – Using an Embedded Canvas App





The "New Way" – Using an Embedded Canvas

App



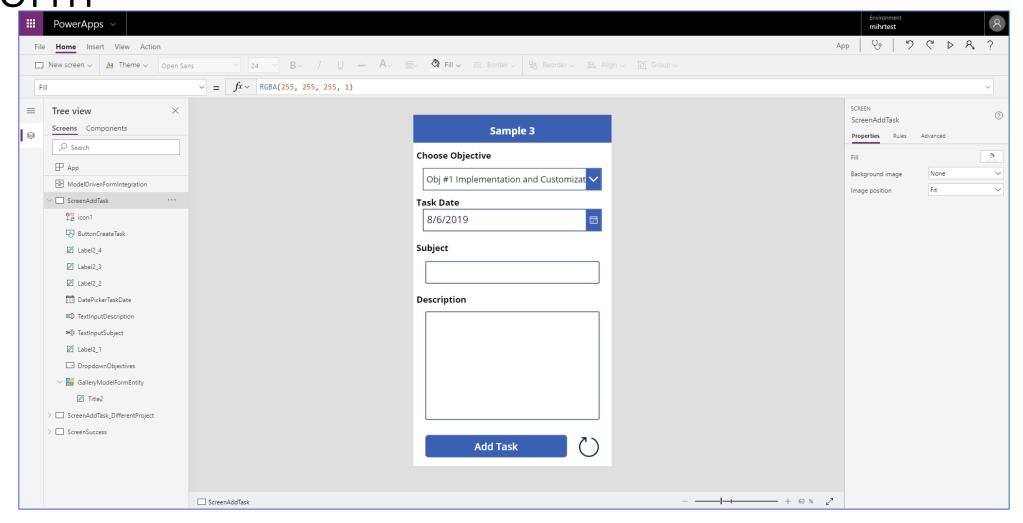


Embedding a Canvas App on a Model Driven Form





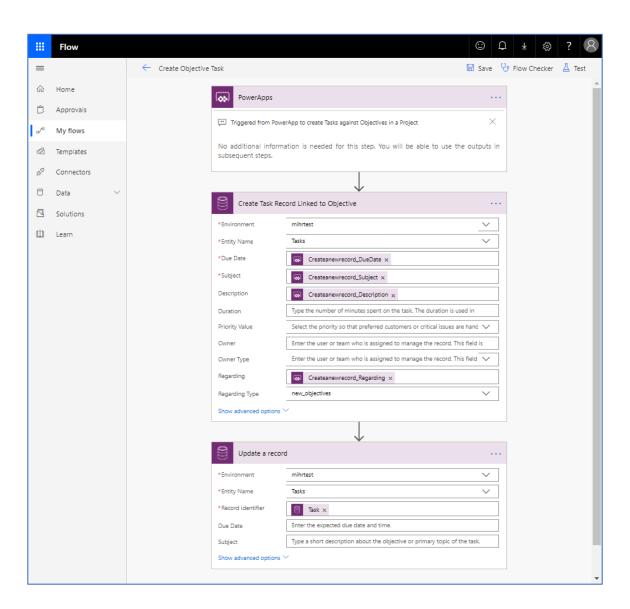
Embedding a Canvas App on a Model Driven Form





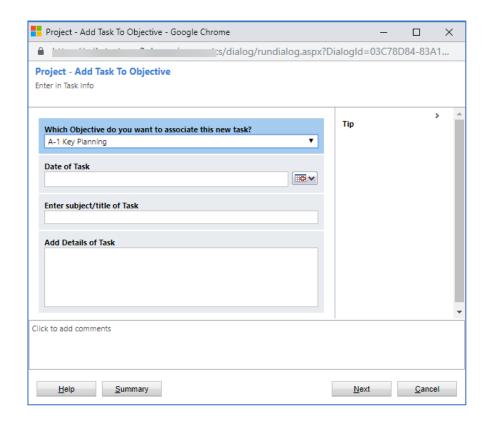
Challenges – Writing Data back to CDS – Flow

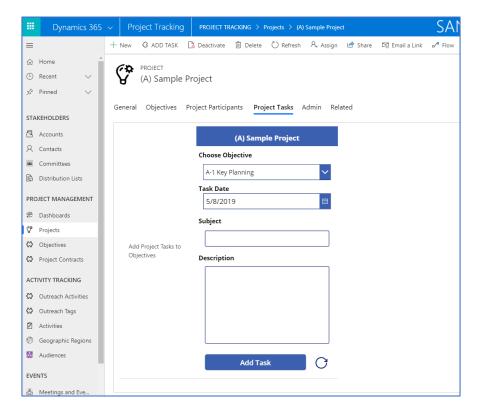
solution





Preference?







Other stuff you should replace

- Use Flows instead of Workflows
- Unified Client instead of legacy web client
- Online instead of on-prem
- PCF Controls vs Web Resources
- Outlook App instead of Outlook Client
- PowerBI vs SSRS?



Thank you













